



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/080,980

DATE: 03/08/2002

TIME: 15:26:19

Input Set : A:\PTO.VSK.txt

- 3 :113 APPLICANT: Bristol-Myers Squibb Company
- 5.01200 TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBUNIT.
 - 6 K+betaM6, EXPRESSED HIGHLY IN THE SMALL INTESTINE
 - 8 -: 1330> FILE REFERENCE: D0121 NP
- C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/080,980
- C--> 10 <141> CURRENT FILING DATE: 2002-02-21
 - 10 -: 150 PRIOR APPLICATION NUMBER: US 60/270,132
 - 11 -: 151. PRIOR FILING DATE: 2001-02-21
 - 13 <150 PRIOR APPLICATION NUMBER: US 60/278,953
 - 14 -: 151: PRIOR FILING DATE: 2001-03-27
 - 16 -: 160> NUMBER OF SEQ ID NOS: 74
 - 18 <170 > SOFTWARE: PatentIn version 3.0
 - 20 <210> SEQ ID NO: 1
 - 21 -:211:> LENGTH: 2052
 - 22 2121- TYPE: DNA
 - 23 (213) ORGANISM: homo sapiens
 - 25 +:220> FEATURE:
 - 2€ -1221> NAME/KEY: CDS
 - 27 -(222) LOCATION: (121)..(1095)
 - 39 -:400> SEQUENCE: 1
 - 30 egteeggegg ggegeaggge tgagegageg teegggetee ggggeteegg ggaaggeggt 60
 32 tgeageteet gagtgeageg eggetteetg ceaetgteee ggeeeggeea cetetetgte 120
 34 atg get etg geg gae age aca egt gga tta eee aac ggg gge gge gge 168
 - 35 Met Ala Leu Ala Asp Ser Thr Arg Gly Leu Pro Asn Gly Gly Gly
 - 36 1 5 10 15
 - 38 ggg ggc ggc agt ggc tcc tcg tcg tcc tcc gcg gag cca ccg ctc ttc 216
 - 39 Gly Gly Ser Gly Ser Ser Ser Ser Ala Glu Pro Pro Leu Phe
 - 40 20 25 30
 - 42 ccc gas atc gtg gag ctg aac gtg ggg ggc cag gtg tac gtg acc cgg 2 43 Pro Asp Ile Val Glu Leu Asn Val Gly Gly Gln Val Tyr Val Thr Arg
 - 44 35 40 45
 - 46 ego tge acg gtg gtg teg gtg eeo gae teg etg etc tgg ego atg tte 312
 - 47 Arg Cys Thr Val Val Ser Val Pro Asp Ser Leu Leu Trp Arg Met Phe
 - 48 50 55 60 50 acg cag cag cag cag gag ctg gcc cgg gac age aaa ggc cgc ttc 360
 - 51 Thr Gln Gln Gln Pro Gln Glu Leu Ala Arg Asp Ser Lys Gly Arg Phe
 - 52 65 70 75 80 54 tit stg gad sgg gad ggd tid std tis ogd tad atd stg gat tad otg 408
 - 55 Phe Leu Asp Arg Asp Gly Phe Leu Phe Arg Tyr Ile Leu Asp Tyr Leu
 - 56 85 90 95 56 egg gas tig sag ete gig etg see gas tas tie ees gag ege ags egg 456
 - 53 Arg Asp Leu Gln Leu Val Leu Pro Asp Tyr Phe Pro Glu Arg Ser Arg 60 100 105 110

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/080,980 TIME: 15:26:19

DATE: 03/03/2002

Input Set : A:\PTO.VSK.txt

	_	_	cgc Arg 115		_					-					_	-	504
			gcg Ala														552
7 <u>:</u>			cac His	_													600
			gag Glu														648
			otg Leu														696
	_	-	ctc Leu 195	-													744
			acc Thr														792
91			gac Asp														840
			tcg Ser														888
	Arg		ccc Pro		Arg					Tyr					Tyr		936
	lys Lys			n Phe					a Phe					c Glu		g ggc	984
	7 Phe		s Met					s Ser					s Ala			agc a Ser	1032
111		r Thi					ı Ası					s Sei				tac Tyr 320	1080
	Va.		c tgo e Cys			1	agcto	caca	agad	2000	ctc g	godad	atada	ag cg	gada	agtoc	1135
																getgetg	1195
																castac	1255
			-	-	-	-				-	_	-				cctgaa	1315
			-	_										_		ctctac	1375
																gggagt	1435
			_	_			-		-	-		-		_	-	caatgt agagatc	1495 1555
A 10%	9.00	gaaq	gull	L 1	Lyac		(Juag	, '.	- L L UI (-9 a - 1	a	999	,990	LLac	gagaic	1000

DATE: 03/08/2002

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/080,980 TIME: 15:26:19

Input Set : A:\PTO.VSK.txt

158 Met Ala Leu Ala Asp Ser Thr Arg Gly Leu Pro Asn Gly Gly Gly Gly 159 1 5 10 15 15 162 Gly Gly Gly Ser Gly Ser Ser Ser Ser Ser Ala Glu Pro Pro Leu Phe 20 166 Pro Asp Ile Val Glu Leu Asn Val Gly Gly Gly Gly Tyr Val Thr Arg 167 35 40 45 170 Arg Cys Thr Val Val Ser Val Pro Asp Ser Leu Leu Trp Arg Met Phe 171 50 55 60 45 174 Thr Gln Gln Gln Pro Gln Glu Leu Ala Arg Asp Ser Lys Gly Arg Phe 175 65 70 75 80 178 Phe Leu Asp Arg Asp Gly Phe Leu Phe Arg Tyr Ile Leu Asp Tyr Leu 90 90 95 162 Arg Arg Asp Leu Gln Leu Val Leu Pro Asp Tyr Phe Pro Glu Arg Ser Arg 110 186 Leu Gln Arg Glu Ala Glu Tyr Phe Glu Leu Pro Glu Leu Val Arg Arg 115 120 125 125 145 150 150 155 160	134 136 138 140 142 144 146 148 151 152 153	ptot popa gggg topa aaga tttt atta taaa 210 211	ttttq atgga ggagt aatgt agato ttgao aaaaa D> SI LI> LI TY	gaa gaagg cagg gaagga g	ggtaggagtegggateggattegattegaaaaaaaaaaa	yagtt gagtt gattt ggtt gagg gagg aaa : 2	et ta	agaag ccacc ggggg ctgac ctgtc agagt	ggete ceete gatga aate ctgge tttta gtaa	g gate cook to tot g gtt a gaa	tggaa ccaga gaatt tcaag tagtg	agat atgg tgtt gctc gttt tgga	toto tact caga ttat taca tgga	gago it bag aabbi igaci aaggi aagai	etg g gtt t iga t ica d ica t	gaatt iggat itgga itggg itaca igago	ettgae taggae totatt accgtg gggttt acagte ectgga tacacg	1615 1675 1735 1795 1855 1915 1975 2035 2052
159 1							C	mh ~	7 ~ ~	C1	T 0.11	Dwo	Nan	~1··	C1	~1.v	Cl.,	
162 Gly Gly Gly Ser Gly Ser Gly Ser Ser Ser Ser Ser Ser Ala Glu Pro Pro Leu Phe 163			Ala	Leu	Ala	_	ser	Thr	Arg	GIY		Pro	ASD	GΙΆ	GIÀ		GTŽ.	
168			Gly	Gly	Ser	-	Ser	Ser	Ser	Ser		Ala	Glu	Pro	Pro		Phe	
167		•	-	-		-												
170		Pro	Asp		Val	Glu	Leu	Asn		Gly	Gly	Gln	Val		Val	Thr	Arg	
171			~ -			77 - 7	a	17 - 1		3	2	T	T		3	Mat.	Dha	
174 Thr Gln Gln Gln Pro Gln Glu Leu Ala Arg Asp Ser Lys Gly Arg Phe Ro Ro Ro Ro Ro Ro Ro R		Arg	-	Thr	Val	vaı	ser		Pro	Asp	ser	ьeu		Trp	Arg	мег	Pne	
175 65		Thr		Gln	Gln	Pro	Gln		Leu	Ala	Arg	Asp		Lvs	Glv	Arq	Phe	
179					-						5	_		1				
182 Arg Asp Leu Gln Leu Val Leu Pro Asp Tyr Phe Pro Glu Arg Ser Arg 183 100 105 110 186 Leu Gln Arg Glu Ala Glu Tyr Phe Glu Leu Pro Glu Leu Val Arg Arg 115 120 125 190 Leu Gly Ala Pro Gln Gln Pro Gly Pro Gly Pro Pro Pro Pro Ser Arg Arg 125 120 125 190 Leu Gly Ala Pro Gln Gln Pro Gly Pro Gly Pro Pro Pro Pro Pro Pro Ser Arg Arg 140 140 194 Gly Val His Lys Glu Gly Ser Leu Gly Asp Glu Leu Leu Pro Leu Gly 155 160 198 Tyr Ser Glu Pro Glu Gln Gln Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser 170 175 202 Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly 185 190 203 180 185 190 206 Pro Leu Leu Thr Pro Ser Gln Ser Leu Asp Gly Ser Arg Arg Ser Gly 205 210 Tyr Tle Thr Ile Gly Tyr Arg Gly Ser Tyr Thr Ile Gly Arg Asp Ala 211 210 215 225 230 236 235 237 240 218 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 225 225 222 255		Phe	Leu	Asp	Arg		Gly	Phe	Leu	Phe	Arg	Tyr	Ile	Leu	Asp		Leu	
183 100 105 110 186 Leu Gln Arg Glu Ala Glu Tyr Phe Glu Leu Pro Glu Leu Val Arg Arg 115 115 120 125 190 Leu Gly Ala Pro Gln Gln Pro Gly Pro Gly Pro Pro Pro Pro Ser Arg Arg 125 125 140 194 Gly Val His Lys Glu Gly Ser Leu Gly Asp Glu Leu Leu Pro Leu Gly 150 150 155 160 198 Tyr Ser Glu Pro Glu Gln Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser 165 170 175 160 198 Tyr Ser Glu Pro Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly 175 165 170 175 175 202 Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly 185 180 185 190 190 190 185 190<								_	_	_		_,	_	- 1	_		_	
186 Leu Gln Arg Glu Ala Glu Tyr Phe Glu Leu Pro Glu Leu Val Arg Arg 187 115 125 120 125 125 125 190 Leu Gly Ala Pro Gln Gln Pro Gly Pro <		Arg	Asp	Leu		Leu	Val	Leu	Pro		Tyr	Phe	Pro	GLU		Ser	Arg	
187 115 120 125 190 Leu Gly Ala Pro Gln Gln Pro Gly Pro Gly Pro Pro Pro Pro Ser Arg Arg 191 130 135 140 194 Gly Val His Lys Glu Gly Ser Leu Gly Asp Glu Leu Leu Pro Leu Gly 195 145 150 155 160 198 Tyr Ser Glu Pro Glu Gln Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser 199 175 175 202 Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly 180 185 190 206 Pro Leu Leu Thr Pro Ser Gln Ser Leu Asp Gly Ser Arg Arg Ser Gly 205 205 210 Tyr Tle Thr Ile Gly Tyr Arg Gly Ser Tyr Thr Ile Gly Arg Asp Ala 215 220 214 Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly 235 240 215 230 235 240 216 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 255 222 255 255 223 260 255		Leu	Gln	Ara		Ala	Glu	Tvr	Phe		Leu	Pro	Glu	Leu		Arg	Arg	
191 130 135 140 194 Gly Val His Lys Glu Gly Ser Leu Gly Asp Glu Leu Leu Pro Leu Gly 155 160 198 Tyr Ser Glu Pro Glu Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser 199 165 170 175 202 Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly 190 185 190 203 180 185 190 204 Pro Leu Leu Thr Pro Ser Gln Ser Leu Asp Gly Ser Arg Arg Ser Gly 205 190 210 Tyr Ile Thr Ile Gly Tyr Arg Gly Ser Tyr Thr Ile Gly Arg Asp Ala 211 210 225 214 Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly 235 240 215 225 230 235 240 216 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 255 255 222 255 255 255 223 265 250 255				_				- 1 -								5		
194 Gly Val His Lys Glu Gly Ser Leu Gly Asp Glu Leu Leu Pro Leu Gly 195 145	190	Leu	Gly	Ala	Pro	Gln	Gln	Pro	Gly	Pro	Gly	Pro	Pro	Pro	Ser	Arg	Arg	
195 145 150 155 160 198 Tyr Ser Glu Pro Glu Gln Gln Gly Ala Ser Ala Gly Ala Pro Ser 199 165 165 170 175 175 175 175 202 Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Ala Ala Ala Gly 203 180 180 185 190 1									_		_			_	_	_		
198 Tyr Ser Glu Pro Glu Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser 199		_	Val	His	Lys	Glu	_	Ser	Leu	Gly	Asp		Leu	Leu	Pro	Leu		
199			Ser	Glu	Pro	Glu		Gln	Glu	Glv	Δla		Δla	Glv	Δla	Pro		
202 Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly 203		111	501	Gra	110		3111	5111	Olu	Ory		501	nia	Oly	1114		501	
206 Pro Leu Leu Thr Pro Ser Gln Ser Leu Asp Gly Ser Arg Arg Ser Gly 207	202	Pro	Thr	Leu	Glu	Leu	Ala	Ser	Arg	Ser	Pro	Ser	Gly	Gly	Ala	Ala	Gly	
207 195 200 205 205 210 Tyr Thr Ile Gly Tyr Arg Gly Ser Tyr Thr Ile Gly Arg Asp Ala 211 210 215 220 220 214 Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly 215 225 230 235 240 240 218 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 219 250 255 250 255 250 265 270																		
210 Tyr Ile Thr Ile Gly Tyr Arg Gly Ser Tyr Thr Ile Gly Arg Asp Ala 211 210 215 220 214 Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly 215 225 230 235 240 218 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 219 245 250 250 250 220 255 221 Arg Asp Pro Asp Arg Pro Pro Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu 223 260 265 270		Pro	Leu		Thr	Pro	Ser	Gln		Leu	Asp	Gly	Ser	_	Arg	Ser	Gly	
210 215 220 214 Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly 215 225 230 235 240 235 240 218 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 219 250 255 255 222 Arg Asp Pro Asp Arg Pro Pro Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu 223 260 265 270 257 270 270 28		Mirr	T10		т1 о	C1.	m	λκα		cor	Tur	mh r	Tlo		λrσ	\ cr	λl	
214 Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly 215 225 230 235 240 218 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 219 245 250 250 255 222 Arg Asp Pro Asp Arg Pro Pro Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu 223 260 265 270				TILL	116	оту	тут	-	GIY	261	тут	TIIT		этү	niy	ush	ura	
215 225 230 235 240 218 Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser 250 255 219 245 250 255 222 Arg Asp Pro Asp Arg Pro Pro Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu 223 265 270				Asp	Ala	Lys	Phe		Arg	Val	Ala	Arg		Thr	Val	Cys	Gly	
219 245 250 255 222 Arg Asp Pro Asp Arg Pro Pro Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu 223 260 265 270	215	225					230					235					240	
222 Arg Asp Pro Asp Arg Pro Pro Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu 223 260 265 270		Lys	Thr	Ser	Leu		Lys	Glu	Val	Phe		Asp	Thr	Leu	Asn		Ser	
223 260 265 270		1	λ	D==	7 ~ ~		D == =	D == =	C1	1		mh~	C	A	m		Tou	
		Arg	ASP	P1.0		AIG	P10	510	GIU		тАт	TIII	ser	AIG		тАт	пеп	
		L;'s	Phe	Asn		Leu	Glu	Gln	Ala		Asp	Lys	Leu	Ser		Ser	Gly	

RAW SEQUENCE LISTING DATE: 03/18/2002 PATENT APPLICATION: US/10/080,980 TIME: 15:26:20

Input Set : A:\PTO.VSK.txt

```
275
                              280
                                                285
DEF Phe His Met Val Ala Cys Ser Ser Thr Gly Thr Cys Ala Phe Ala Ser
293 295
                               300
134 Ser Thr Asp Gln Ser Glu Asp Lys Ile Trp Thr Ser Tyr Thr Glu Tyr
235 305 310
                               315
136 Val Phe Cys Arg Glu
239
242 -: 210 - SEQ ID NO: 3
243 (211> LENGTH: 228
244 -: 212 - TYPE: PRT
245 0213 ORGANISM: Drosophila melanogaster
247 -: 400 - SEQUENCE: 3
249 Met Pro Glu Ile Ile Glu Leu Asn Val Gly Gly Val Ser Tyr Thr Thr
           5
252 Thr Leu Ala Thr Leu Leu Gln Asp Lys Ser Thr Leu Leu Ala Glu Leu
                                 25
              20
255 Phe Gly Glu Gly Arg Asp Ser Leu Ala Lys Asp Ser Lys Gly Arg Tyr
256
          3.5
                              40
258 Phe Leu Asp Arg Asp Gly Val Leu Phe Arg Tyr Ile Leu Asp Phe Leu
259 50
                          55
261 Arg Asp Lys Ala Leu His Leu Pro Glu Gly Phe Arg Glu Arg Gln Arg
                      70
                                         75
264 Leu Leu Arg Glu Ala Glu His Phe Lys Leu Thr Ala Met Leu Glu Cys
                                     90
267 Ile Arg Ser Glu Arg Asp Ala Arg Pro Pro Gly Cys Ile Thr Ile Gly
                                 105
268
              100
270 Tyr Arg Gly Ser Phe Glr. Phe Gly Lys Asp Gly Leu Ala Asp Val Lys
271 115
                             120
273 Phe Arg Lys Leu Ser Arg Ile Leu Val Cys Gly Arg Val Ala Gln Cys
274 130
                          135
                                            140
276 Arg Glu Val Phe Gly Asp Thr Leu Asn Glu Ser Arg Asp Pro Asp His
277 145
                     150
                                        155
279 Gly Gly Thr Asp Arg Tyr Thr Ser Arg Phe Phe Leu Lys His Cys Tyr
                                    170
                  165
282 The Glu Gln Ala Phe Asp Asn Leu His Asp His Gly Tyr Arg Met Ala
                                 185
                                                    190
283
              180
285 Gly Ser Cys Gly Ser Gly Thr Ala Gly Ser Ala Ala Glu Pro Lys Pro
286 195
                             200
                                               205
188 Gly Val Asp Thr Glu Glu Asn Arg Trp Asn His Tyr Asn Glu Phe Val
289 210
                         215
                                            220
291 Phe Ile Arg Asp
292 225
294 (210) SEQ ID NO: 4
295 -: 211> LENGTH: 435
296 -(212> TYPE: PRT
237 <213 > ORGANISM: Homo sapiens
299 <400> SEQUENCE: 4
301 Gln Gln Gln Lys Lys Gly Thr Met Ala Leu Ser Gly Asn Cys Ser Arg
                  5
301 1
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/080,980

DATE: 03/08/2002

TIME: 15:26:20

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\03082002\J080980.raw

304 305	Tyr	Tyr	Pro	Arg 20	Glu	Gln	Gly	Ser	Ala 25	Val	Pro	Asn	Ser	Phe 30	Pro	Glu
307 308	Val	Val	Glu 35	Leu	Asn	Val	Gly	Gly 40	Gln	Val	Tyr	Phe	Thr 45	Arg	His	Ser
310 311	Thr	Leu 50	Ile	Ser	Ile	Pro	His 55	Ser	Leu	Leu	Trp	Lys 60	Met	Phe	Ser	Pro
313 314	_	Arg	Asp	Thr	Ala	Asn 70	Asp	Leu	Ala	Lys	Asp 75	Ser	Lys	Gly	Arg	Phe 80
316 317	Phe	Ile	Asp	Arg	Asp 85	Gly	Phe	Leu	Phe	Arg 90	Tyr	Ile	Leu	Asp	Tyr 95	Leu
319 320	Arg	Asp	Arg	Gln 100	Val	Val	Leu	Pro	Asp 105	His	Phe	Pro	Glu	Lys 110	Gly	Arg
323			115	Glu				120					125			
325 326	Leu	Thr 130	Pro	Asp	Glu	Ile	Lys 135	Gln	Ser	Pro	Asp	Glu 140	Phe	Cys	His	Ser
329	145			Asp		150					155					160
332				Leu	165					170					175	
335	-			Ser 180	_				185					190		
338			195	Val				200					205			
340 341	Lys	Glu 210	Val	Phe	Gly	Glu	Thr 215	Leu	Asn	Glu	Ser	Arg 220	Asp	Pro	Asp	Arg
344	225			Arg	_	230		_			235					240
347				Phe	245					250					255	
350	_			Ser 260					265					270		
353	_		275	Ser				280					285			
355 356	Arg	Trp 290	Ser	Pro	Ser	His	Cys 295	Asp	Cys	Cys	Cys	Lys 300	Asn	Gly	Lys	Gly
359	305	_		Gly		310					315					320
362		_	_	Ser	325					330					335	
364 365				340					345					350		Pro
367 368			355	Gly				360					365			
370 371	Lys	Ser 370	Asp	Leu	Leu	Arg	Thr 375	Leu	Thr	Ser	Gly	Ser 380	Arg	Glu	Ser	Asn
	Met 385	Ser	Ser	Lys	Lys	Lys 390	Ala	Val	Lys	Glu	Lys 395	Leu	Ser	Ile	Glu	Glu 400
376	Glu	Leu	Glu	Lys	Cys	Ile	Gln	Asp	Phe	Leu	Lys	Ile	Lys	Ile	Pro	Asp



USe or complete Alah Rasinesh detected in this Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using nior Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/080,980

DATE: 03/08/2002

TIME: 15:26:21

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\03082002\J080980.raw

1:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:2"1 C: Current Filing Date differs, Replaced Current Filing Date

L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

L:547 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8

L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:559 M:258 W: Mandatory Feature missing, $\langle 222 \rangle$ not found for SEQ ID#:8

L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:561 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8

L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:565 M:258 W: Mandatory Feature missing, <222: not found for SEQ ID#:8

L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8